

VITAE – STEPHEN A. WOLBERS

August 29, 2005

Birth Date: June 27, 1955, Sheldon, IA.

Present Position: Scientist II
Fermilab MS 370
Computing Division
P.O. Box 500
Batavia, IL 60510

EDUCATION

Undergraduate: A.B. Degree, 1978, U.C. Berkeley (Math and Physics)
Graduate: M.A. Degree, 1980, U.C. Berkeley (Physics)
Ph.D. Degree, December, 1984, U.C. Berkeley (Physics)
Ph.D. Advisor: Harry H. Bingham (deceased)
Thesis Title: Inclusive Photoproduction of Strange Baryons at 20 GeV.

POSITIONS HELD

Scientific Appointments:

September, 1978 – June, 1980 Teaching Assistant, U.C. Berkeley
June, 1980 – December, 1984 Research Assistant, U.C. Berkeley
January, 1985 – July, 1989 Research Associate, Fermilab
July, 1989 – October, 1994 Associate Scientist, Fermilab
October, 1994 – May 1, 1998 Scientist I, Fermilab
May 1, 1998 – present Scientist II, Fermilab

Management Appointments:

April, 1991 – February, 1994 Group Leader, Farms Group, Computing Division
February, 1994 – December 31, 1996 Head, OSS Department,
Computing Division, Fermilab
January 1, 1997 – June 30, 1998 Deputy Head, Computing Division, Fermilab
July 1, 1998 – September 30, 1998 Acting Head, Computing Division, Fermilab
October 1, 1998 – October 31, 2002 Deputy Head, Computing Division, Fermilab
November 1, 2002 – present Associate Head-Financials and Projects,
Computing Division, Fermilab
August 1, 2003 – July 1, 2005 Project Manager, Tevatron BPM Upgrade Project
July 1, 2005 – present Project Manager, MI BPM Upgrade Project

EXPERIMENTAL AFFILIATION

1980 – 1984	SLAC Expt BC 72/73/75/76
1985 – 2001	Fermilab Expt E665
1997 – Present	Fermilab Expt CDF

Member, APS and ACM.

Home Page: home.fnal.gov/~wolbers

Committee, Conference and Review Assignments

1. Member, 8mm/Serial Media Working Group, Computing Division, 1990.
2. Member, Word Processing Subcommittee, 1985.
3. Member, Ad-Hoc Committee on the Common File Server, 1989.
4. Member, SDSS software review, 1992 and 1996.
5. Member and co-leader, Fermilab Publications Fileserver Committee 1995-present
6. Member, CDF godparents review committee: Upgrade Software, 1996
7. Member, Fermilab Computer Security Working Group, 1998-present.
8. Member, Run II Joint CDF/D0/CD Committee 1996-present
9. Member, LHCC Consultants Group (LCG) to review Computing for the LHC experiments, January, 1997 – January, 2000*
10. Member, RHIC Computing Review Committee, 1997-present*
11. Member, Fermilab Policy Manual Working Group, 1998.
12. Head, Fermilab BSS Critical Systems Working Group, June-December, 1999.
13. Head, Fermilab Beams Critical Systems Working Group, June-December, 1999.
14. Member, Brookhaven US ATLAS Project Advisory Panel, Jan, 2000-present*
15. Organizer, NSS Conference, Lyon, France, October, 2000.
16. Co-convener, Commodity Hardware and Software Session, CHEP2000, Padova, Italy, February, 2000.
17. Co-convener, Commodity Hardware and Software Session, CHEP2001, Beijing, China, 3-7 Sept, 2001.
18. Member, Compensation Committee (headed by Kay Van Vreede of Lab Services), Feb, 2000 to early 2001.
19. Member, Organizing Committee for the Fermi Centennial (headed by Chris Quigg and Jeff Appel), May, 2001-September, 2001.
20. Member, URA Thesis Award Committee, 2002-present.
21. Chair, URA Thesis Award Committee, 2003-present.
22. Member, Run 2 committee, 2002.
23. Member, many Associate Scientist (CD) search committees.
24. Member, High Risk Property Committee (FNAL), 2004-present.
25. Chair, Commodity Node Procurement Task Force (CD), 2005

* External committee

Stephen Wolbers
Training

1. Supervisory Training (for group leaders), Fermilab, January-April, 1993.
2. Fast Track to Objects, January 6, 1999.
3. C++ for non-C Programmers, January 22-March 5, 1999 (1/2 day per week).
4. Leadership/Management Training, given by the MRA - the Northern Illinois Business Association, March-April, 1999.
5. Performance Appraisal Training – Supervisors, March 7, 2002.
6. Interaction Management Training – July 28, 2005 - October, 2005.

Stephen Wolbers
Invited Talks

1. ‘Tevatron Beam Position Monitor Upgrade’, invited parallel talk presented at PAC05, Knoxville, TN, May 16-20, 2005. FERMILAB-CONF-05-088-AD-CD
2. ‘Computing Experience from CDF and D0’, invited plenary talk presented at CHEP2003, San Diego, CA, March 24-28, 2003. (http://home.fnal.gov/~wolbers/chep2003_032403.pdf)
3. ‘Petabyte-Scale Computing for High Energy Physics’, presented at the monthly meeting of the Chicago chapter of ACM, October 17, 2001. (home.fnal.gov/~wolbers/acm_101701.pdf)
4. ‘Computing as a Tool for High Energy and Nuclear Physics’, Jefferson Lab Colloquium, April 25, 2001. (home.fnal.gov/~wolbers/jeffersonlab.pdf)
5. ‘Computing as a Tool for High Energy and Nuclear Physics’, University of Illinois, Chicago, Physics Colloquium, March 28, 2001.
(home.fnal.gov/~wolbers/uic_032801.pdf)
6. ‘Physics at Fermilab’, invited talk at the HEPiX (High Energy Physics UNIX) meeting, Fermilab, August 26-28, 1998.
7. ‘Commodity Hardware and Software Summary’, Stephen Wolbers, presented at CHEP97, Berlin, Germany, April 7-11, 1997
8. ‘Strategic Directions of Computing at Fermilab’, Stephen Wolbers, presented at CHEP97, Berlin, Germany, April 7-11, 1997
9. ‘ σ_n/σ_p and Structure Functions Measured in 470 GeV Muon Scattering’, Stephen Wolbers, presented at SLAC, March 21, 1995.
10. ‘Analyzing Terabytes of Data at Fermilab’, Stephen Wolbers, presented at the 1994 Computing in High Energy Physics Conference, San Francisco, CA, April 20-27, 1994 (FERMILAB-Conf-94/112)

11. ‘Structure Functions and σ_n/σ_p Measured in 465 GeV/c Muon-Nucleon Interactions’, S. Wolbers, presented at the XXIXth Rencontres de Moriond, Meribel, France, March 19-26, 1994. (FERMILAB-CONF-94/139-E)
12. ‘Coarse-Grained Parallel Computing in HEP’, Stephen Wolbers, presented at the 1993 Joint April Meeting of the APS, Washington, DC, April 12-15, 1993
13. ‘Software for Parallel Processing Applications’, Stephen Wolbers, presented at the Computing in High Energy Physics Conference, Annecy, France, September 21-25, 1992 (FERMILAB-Conf-92/260) Published in CERN 92/07, 21 December 1992, P.111
14. ‘Deep Inelastic Muon Scattering at 490 GeV’, Stephen Wolbers, Indiana University Seminar, March 26, 1991

Stephen Wolbers
Publication List

CDF

- Acosta:2005ab D. Acosta *et al.* [CDF Collaboration], arXiv:hep-ex/0507067.
- Acosta:2005kc D. Acosta *et al.* [CDF Collaboration], “Search for W and Z bosons in the reaction anti-p p → 2 jets + gamma at $s^{**}(1/2) = 1.8\text{-TeV}$,” arXiv:hep-ex/0507051. CITATION = HEP-EX 0507051;
- Acosta:2005bk D. Acosta *et al.* [CDF Collaboration], “A search for supersymmetric Higgs bosons in the di-tau decay mode in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” arXiv:hep-ex/0506042. CITATION = HEP-EX 0506042;
- Acosta:2005zd D. Acosta *et al.* [CDF Collaboration], “Measurement of the t anti-t production cross section in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ using lepton plus jets events with semileptonic B decays to muons,” Phys. Rev. D **72**, 032002 (2005) [arXiv:hep-ex/0506001]. CITATION = HEP-EX 0506001;
- Acosta:2005hr D. Acosta *et al.* [CDF Collaboration], “Measurement of $B(t \rightarrow W b)/B(t \rightarrow W q)$ at the Collider Detector at Fermilab,” arXiv:hep-ex/0505091. CITATION = HEP-EX 0505091;
- Acosta:2005us D. Acosta *et al.* [CDF Collaboration], “Evidence for the exclusive decay $B/c \rightarrow J/\psi \pi^+$ and measurement of the mass of the B/c meson,” arXiv:hep-ex/0505076. CITATION = HEP-EX 0505076;
- Acosta:2005ix D. Acosta *et al.* [CDF Collaboration], “Study of jet shapes in inclusive jet production in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” arXiv:hep-ex/0505013. CITATION = HEP-EX 0505013;
- Acosta:2005am D. Acosta *et al.* [CDF Collaboration], “Measurement of the cross section for t anti-t production in p anti-p collisions using the kinematics of lepton + jets events,” arXiv:hep-ex/0504053. CITATION = HEP-EX 0504053;
- Acosta:2005pk D. Acosta *et al.* [CDF Collaboration], “K0(S) and Lambda0 production studies in p anti-p collisions at $s^{**}(1/2) = 1800\text{-GeV}$ and 630-GeV ,” arXiv:hep-ex/0504048. CITATION = HEP-EX 0504048;
- Acosta:2005dn D. Acosta *et al.* [CDF Collaboration], “Measurement of the azimuthal angle distribution of leptons from W boson decays as a function of the W transverse momentum in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” arXiv:hep-ex/0504020. CITATION = HEP-EX 0504020;

- Acosta:2005ga D. Acosta *et al.* [CDF Collaboration], “Search for Higgs bosons decaying into b anti-b and produced in association with a vector boson in proton antiproton collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **95**, 051801 (2005) [arXiv:hep-ex/0503039]. CITATION = HEP-EX 0503039;
- Acosta:2005np D. Acosta *et al.* [CDF Collaboration], “Search for long-lived doubly-charged Higgs bosons in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. Lett. **95**, 071801 (2005) [arXiv:hep-ex/0503004]. CITATION = HEP-EX 0503004;
- Acosta:2005eu D. Acosta *et al.* [CDF Collaboration], “First evidence for $B/s_0 \rightarrow \Phi \Phi$ decay and measurements of branching ratio and A(CP) for $B^+ \rightarrow \Phi K^+$,” arXiv:hep-ex/0502044. CITATION = HEP-EX 0502044;
- Acosta:2005qh D. Acosta *et al.* [CDF Collaboration], “Measurement of the moments of the hadronic invariant mass distribution in semileptonic B decays,” Phys. Rev. D **71**, 051103 (2005) [arXiv:hep-ex/0502003]. CITATION = HEP-EX 0502003;
- Acosta:2005mu D. Acosta *et al.* [CDF Collaboration], “Measurement of the $W^+ W^-$ production cross section in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ using dilepton events,” Phys. Rev. Lett. **94**, 211801 (2005) [arXiv:hep-ex/0501050]. CITATION = HEP-EX 0501050;
- Acosta:2005ud D. Acosta *et al.* [CDF Collaboration], “Measurement of the forward-backward charge asymmetry from $W \rightarrow e \nu$ production in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. D **71**, 051104 (2005) [arXiv:hep-ex/0501023]. CITATION = HEP-EX 0501023;
- Acosta:2005pq D. Acosta *et al.* [CDF Collaboration], “Search for $Z Z$ and $Z W$ production in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. D **71**, 091105 (2005) [arXiv:hep-ex/0501021]. CITATION = HEP-EX 0501021;
- Acosta:2004yw D. Acosta *et al.* [CDF Collaboration], “Measurement of the J/ψ meson and b-hadron production cross sections in p anti-p collisions at $s^{**}(1/2) = 1960\text{-GeV}$,” Phys. Rev. D **71**, 032001 (2005) [arXiv:hep-ex/0412071]. CITATION = HEP-EX 0412071;
- Acosta:2004gt D. Acosta *et al.* [CDF Collaboration], “Analysis of decay-time dependence of angular distributions in $B/s_0 \rightarrow J/\psi \Phi$ and $B/d_0 \rightarrow J/\psi K^*0$ decays and measurement of the lifetime difference between B/s mass eigenstates,” Phys. Rev. Lett. **94**, 101803 (2005) [arXiv:hep-ex/0412057]. CITATION = HEP-EX 0412057;
- Acosta:2004sn D. Acosta *et al.* [CDF Collaboration], “Measurement of the cross section for prompt diphoton production in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys.

- Rev. Lett. **95**, 022003 (2005) [arXiv:hep-ex/0412050]. CITATION = HEP-EX 0412050;
- Acosta:2004av D. Acosta *et al.* [CDF Collaboration], “Search for anomalous kinematics in t anti-t dilepton events at CDF II,” Phys. Rev. Lett. **95**, 022001 (2005) [arXiv:hep-ex/0412042]. CITATION = HEP-EX 0412042;
- Acosta:2004nj D. Acosta *et al.* [CDF Collaboration], “Measurements of bottom anti-bottom azimuthal production correlations in proton antiproton collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. D **71**, 092001 (2005) [arXiv:hep-ex/0412006]. CITATION = HEP-EX 0412006;
- Acosta:2004mb D. Acosta *et al.* [CDF Collaboration], “Measurement of the W boson polarization in top decay at CDF at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. D **71**, 031101 (2005) [Erratum-ibid. D **71**, 059901 (2005)] [arXiv:hep-ex/0411070]. CITATION = HEP-EX 0411070;
- Acosta:2004wq D. Acosta *et al.* [CDF Collaboration], “Measurement of the forward-backward charge asymmetry of electron positron pairs in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. D **71**, 052002 (2005) [arXiv:hep-ex/0411059]. CITATION = HEP-EX 0411059;
- Acosta:2004js D. Acosta *et al.* [CDF Collaboration], “Measurement of charged particle multiplicities in gluon and quark jets in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **94**, 171802 (2005). CITATION = PRLTA,94,171802;
- Acosta:2004zb D. Acosta *et al.* [CDF Collaboration], “Search for scalar leptoquark pairs decaying to nu anti-nu q anti-q in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. D **71**, 112001 (2005) [Erratum-ibid. D **71**, 119901 (2005)] [arXiv:hep-ex/0410076]. CITATION = HEP-EX 0410076;
- Acosta:2004bs D. Acosta *et al.* [CDF Collaboration], “Search for electroweak single top quark production in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. D **71**, 012005 (2005) [arXiv:hep-ex/0410058]. CITATION = HEP-EX 0410058;
- Acosta:2004sb D. Acosta *et al.* [CDF Collaboration], “Search for anomalous production of diphoton events with missing transverse energy at CDF and limits on gauge-mediated supersymmetry-breaking models,” Phys. Rev. D **71**, 031104 (2005) [arXiv:hep-ex/0410053]. CITATION = HEP-EX 0410053;
- Acosta:2004hw D. Acosta *et al.* [CDF Collaboration], “Measurement of the t anti-t production cross section in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ using lepton + jets events with secondary vertex b-tagging,” Phys. Rev. D **71**, 052003 (2005) [arXiv:hep-ex/0410041]. CITATION = HEP-EX 0410041;

- Acosta:2004ts D. Acosta *et al.* [CDF Collaboration], “Measurement of partial widths and search for direct CP violation in D0 meson decays to K- K+ and pi- pi+,” Phys. Rev. Lett. **94**, 122001 (2005) [arXiv:hep-ex/0504006]. CITATION = HEP-EX 0504006;
- Acosta:2004it D. Acosta *et al.* [CDF II Collaboration], “Measurement of W gamma and Z gamma production in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. Lett. **94**, 041803 (2005) [arXiv:hep-ex/0410008]. CITATION = HEP-EX 0410008;
- Acosta:2004be D. Acosta *et al.* [CDF-II Collaboration], “Measurement of the t anti-t production cross section in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ using kinematic fitting of b-tagged lepton + jet events,” Phys. Rev. D **71**, 072005 (2005) [arXiv:hep-ex/0409029]. CITATION = HEP-EX 0409029;
- Acosta:2004uq D. Acosta *et al.* [CDF II Collaboration], “First measurements of inclusive W and Z cross sections from Run II of the Tevatron collider,” Phys. Rev. Lett. **94**, 091803 (2005) [arXiv:hep-ex/0406078]. CITATION = HEP-EX 0406078;
- Acosta:2004uj D. Acosta *et al.* [CDF Collaboration], “Search for doubly-charged Higgs bosons decaying to dileptons in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. Lett. **93**, 221802 (2004) [arXiv:hep-ex/0406073]. CITATION = HEP-EX 0406073
- Acosta:2004kx D. Acosta *et al.* [CDF Collaboration], “Inclusive search for anomalous production of high-p(T) like-sign lepton pairs in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **93**, 061802 (2004) [arXiv:hep-ex/0405063]. CITATION = HEP-EX 0405063;
- Acosta:2004uw D. Acosta *et al.* [CDF Collaboration], “Measurement of the t anti-t production cross section in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ using dilepton events,” Phys. Rev. Lett. **93**, 142001 (2004) [arXiv:hep-ex/0404036]. CITATION = HEP-EX 0404036;
- Acosta:2004bg D. Acosta *et al.* [CDF Collaboration], “Direct photon cross section with conversions at CDF,” Phys. Rev. D **70**, 074008 (2004) [arXiv:hep-ex/0404022]. CITATION = HEP-EX 0404022;
- Acosta:2004wq D. Acosta *et al.* [CDF Collaboration], “The underlying event in hard interactions at the Tevatron anti-p p collider,” Phys. Rev. D **70**, 072002 (2004) [arXiv:hep-ex/0404004]. CITATION = HEP-EX 0404004;
- Acosta:2004er D. Acosta *et al.* [CDF Collaboration], “Optimized search for single top quark production at the Fermilab Tevatron,” Phys. Rev. D **69**, 052003 (2004). CITATION = PHRVA,D69,052003;

- Acosta:2004xj D. Acosta *et al.* [CDF Collaboration], “Search for $B/s_0 \rightarrow \mu^+ \mu^-$ and $B/d_0 \rightarrow \mu^+ \mu^-$ decays in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. Lett. **93**, 032001 (2004) [arXiv:hep-ex/0403032]. CITATION = HEP-EX 0403032;
- Acosta:2003zx D. Acosta *et al.* [CDF II Collaboration], “Observation of the narrow state $X(3872) \rightarrow J/\psi \pi^+ \pi^-$ in anti-p p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. Lett. **93**, 072001 (2004) [arXiv:hep-ex/0312021]. CITATION = HEP-EX 0312021;
- Acosta:2003jm D. Acosta *et al.* [CDF Collaboration], “Measurement of the polar-angle distribution of leptons from W boson decay as a function of the W transverse momentum in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. D **70**, 032004 (2004) [arXiv:hep-ex/0311050]. CITATION = HEP-EX 0311050;
- Abazov:2003sv V. M. Abazov *et al.* [CDF Collaboration], “Combination of CDF and D0 results on W boson mass and width,” Phys. Rev. D **70**, 092008 (2004) [arXiv:hep-ex/0311039]. CITATION = HEP-EX 0311039;
- Acosta:2003xi D. Acosta *et al.* [CDF Collaboration], “Inclusive double pomeron exchange at the Fermilab Tevatron anti-p p collider,” Phys. Rev. Lett. **93**, 141601 (2004) [arXiv:hep-ex/0311023]. CITATION = HEP-EX 0311023;
- Acosta:2003ie D. Acosta *et al.* [CDF Collaboration], ‘Measurement of the average time integrated mixing probability of b-flavored hadrons produced at the Tevatron,’ Phys. Rev. D **69**, 012002 (2004) [arXiv:hep-ex/0309030]. CITATION = HEP-EX 0309030;
- Acosta:2003ag D. Acosta *et al.* [CDF Collaboration], “Search for the flavor-changing neutral current decay $D_0 \rightarrow \mu^+ \mu^-$ in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. D **68**, 091101 (2003) [arXiv:hep-ex/0308059]. CITATION = HEP-EX 0308059;
- Acosta:2003qr D. Acosta *et al.* [CDF II Collaboration], “Measurement of the mass difference $m(D/s^+) - m(D^+)$ at CDF II,” Phys. Rev. D **68**, 072004 (2003) [arXiv:hep-ex/0310043]. CITATION = HEP-EX 0310043;
- Acosta:2003ax D. Acosta *et al.* [CDF Collaboration], “Measurement of prompt charm meson production cross sections in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$,” Phys. Rev. Lett. **91**, 241804 (2003) [arXiv:hep-ex/0307080]. CITATION = HEP-EX 0307080;
- Acosta:2003mu D. Acosta *et al.* [CDF Collaboration], “Search for associated production of Upsilon and vector boson in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **90**, 221803 (2003). CITATION = PRLTA,90,221803;

- Acosta:2003jd D. Acosta *et al.* [CDF Collaboration], “Search for lepton flavor violating decays of a heavy neutral particle in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **91**, 171602 (2003) [arXiv:hep-ex/0307012]. CITATION = HEP-EX 0307012;
- Acosta:2003ze D. Acosta *et al.* [CDF Collaboration], “Search for pair production of scalar top quarks in R-parity violating decay modes in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **92**, 051803 (2004) [arXiv:hep-ex/0305010]. CITATION = HEP-EX 0305010;
- Acosta:2003im D. Acosta *et al.* [CDF Collaboration], “Central pseudorapidity gaps in events with a leading antiproton at the Fermilab Tevatron anti-p p collider,” Phys. Rev. Lett. **91**, 011802 (2003) [arXiv:hep-ex/0303011]. CITATION = HEP-EX 0303011;
- Acosta:2003ys D. Acosta *et al.* [CDF Collaboration], “Search for the supersymmetric partner of the top quark in dilepton events from p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **90**, 251801 (2003) [arXiv:hep-ex/0302009]. CITATION = HEP-EX 0302009;
- Acosta:2002st . Acosta *et al.* [CDF Collaboration], “Cross section for forward J/ psi production in pp collisions at $s = 1.8 \text{ TeV}$,” Phys. Rev. D **66**, 092001 (2002). CITATION = PHRVA,D66,092001;
- Acosta:2002ju D. Acosta *et al.* [CDF Collaboration], “Search for long-lived charged massive particles in anti-p p collisions at $s^{**}1/2 = 1.8\text{-TeV}$,” Phys. Rev. Lett. **90**, 131801 (2003) [arXiv:hep-ex/0211064]. CITATION = HEP-EX 0211064;
- Acosta:2002nu D. Acosta *et al.* [CDF Collaboration], “Search for a W' boson decaying to a top and bottom quark pair in 1.8-TeV p anti-p collisions. ((B)),” Phys. Rev. Lett. **90**, 081802 (2003) [arXiv:hep-ex/0209030]. CITATION = HEP-EX 0209030;
- Acosta:2002fh D. Acosta *et al.* [CDF Collaboration], “Search for radiative b-hadron decays in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}. ((C))$,” Phys. Rev. D **66**, 112002 (2002) [arXiv:hep-ex/0208035]. CITATION = HEP-EX 0208035;
- Acosta:2002gg D. Acosta *et al.* [CDF Collaboration], “Momentum distribution of charged particles in jets in dijet events in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$ and comparisons to perturbative QCD predictions,” Phys. Rev. D **68**, 012003 (2003). CITATION = PHRVA,D68,012003;
- Acosta:2002qk D. Acosta *et al.* [CDF Collaboration], “Measurement of the ratio of b quark production cross sections in anti-p p collisions at $s^{**}(1/2) = 630\text{-GeV}$ and $s^{**}(1/2) = 1800\text{-GeV}$,” Phys. Rev. D **66**, 032002 (2002) [arXiv:hep-ex/0206019]. CITATION = HEP-EX 0206019;

- Acosta:2002pw D. Acosta *et al.* [CDF Collaboration], “Branching ratio measurements of exclusive B^+ decays to charmonium with the Collider Detector at Fermilab,” Phys. Rev. D **66**, 052005 (2002). CITATION = PHRVA,D66,052005;
- Acosta:2002eq D. Acosta *et al.* [CDF Collaboration], “Limits on extra dimensions and new particle production in the exclusive photon and missing energy signature in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **89**, 281801 (2002) [arXiv:hep-ex/0205057]. CITATION = HEP-EX 0205057;
- Acosta:2002nd D. Acosta *et al.* [CDF Collaboration], “Measurement of B meson lifetimes using fully reconstructed B decays produced in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. D **65**, 092009 (2002). CITATION = PHRVA,D65,092009;
- Acosta:2002qq D. Acosta *et al.* [CDF Collaboration], “Search for new physics in photon lepton events in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **89**, 041802 (2002) [arXiv:hep-ex/0202044]. CITATION = HEP-EX 0202044;
- Acosta:2001gv D. Acosta *et al.* [CDF Collaboration], “Upsilon production and polarization in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$,” Phys. Rev. Lett. **88**, 161802 (2002). CITATION = PRLTA,88,161802;
- Acosta:2002ya D. Acosta *et al.* [CDF Collaboration], “Comparison of the isolated direct photon cross sections in p anti-p collisions at $s^{**}(1/2) = 1.8\text{-TeV}$ and $s^{**}(1/2) = 0.63\text{-TeV}$,” Phys. Rev. D **65**, 112003 (2002) [arXiv:hep-ex/0201004]. CITATION = HEP-EX 0201004;
- Acosta:2001rm D. Acosta *et al.* [CDF Collaboration], “Soft and hard interactions in p anti-p collisions at $s^{**}(1/2) = 1800\text{-GeV}$ and 630-GeV ,” Phys. Rev. D **65**, 072005 (2002). CITATION = PHRVA,D65,072005;
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